

SYSTEM AND METHODS FOR PERFORMING SURGICAL PROCEDURES AND ASSESSMENTS

ABSTRACT OF THE DISCLOSURE

5 The present invention involves systems and related methods for performing surgical
procedures and assessments, including the use of neurophysiology-based monitoring to: (a)
determine nerve proximity and nerve direction to surgical instruments employed in accessing
a surgical target site; (b) assess the pathology (health or status) of a nerve or nerve root
before, during, or after a surgical procedure; and/or (c) assess pedicle integrity before, during
10 or after pedicle screw placement, all in an automated, easy to use, and easy to interpret
fashion so as to provide a surgeon-driven system.